

## Features

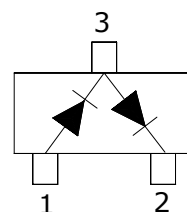
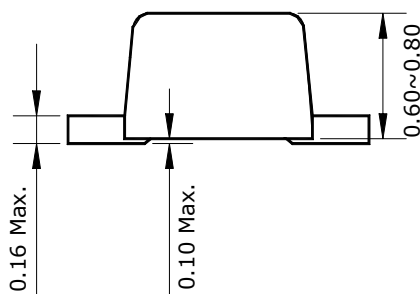
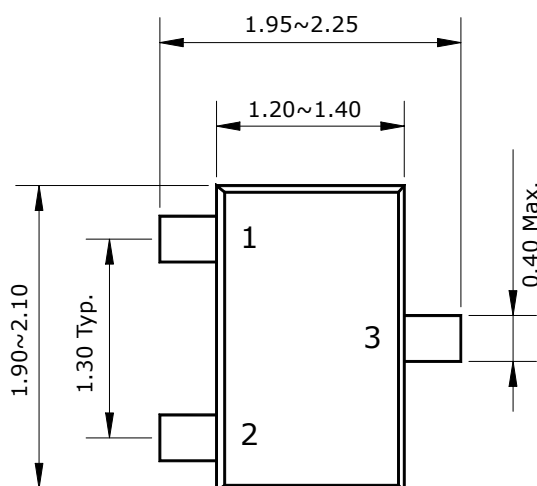
- Low  $V_F$  ( Max. 0.5V @ 30mA)
- Low  $I_R$  ( Max. 1  $\mu A$  @ 30V)
- High reliability

## Ordering Information

| Type No.   | Marking | Package Code |
|------------|---------|--------------|
| SDB310WMUF | DB3     | SOT-323F     |

## Outline Dimensions

unit : mm



### PIN Connections

1. Anode
2. Cathode
3. Cathode, Anode

# SDB310WMUF

## Absolute maximum ratings

Ta=25°C

| Characteristic                      | Symbol      | Rating    | Unit |
|-------------------------------------|-------------|-----------|------|
| Reverse voltage                     | $V_R$       | 30        | V    |
| Forward current                     | $I_F$       | 200       | mA   |
| Non-repetitive peak forward current | $I_{FSM} *$ | 2         | A    |
| Power dissipation                   | $P_D$       | 150       | mW   |
| Junction temperature                | $T_j$       | 150       | °C   |
| Storage temperature range           | $T_{stg}$   | -55 ~ 150 | °C   |

\* 60Hz , 1 cycle.

## Electrical Characteristics

Ta=25°C

| Characteristic    | Symbol   | Test Condition   | Min. | Typ. | Max. | Unit |
|-------------------|----------|------------------|------|------|------|------|
| Forward voltage   | $V_{F1}$ | $I_F=10mA$       | -    | -    | 0.4  | V    |
|                   | $V_{F2}$ | $I_F=30mA$       | -    | -    | 0.5  | V    |
| Reverse current   | $I_R$    | $V_R=30V$        | -    | -    | 1    | μA   |
| Total capacitance | $C_T$    | $V_R=1V, f=1MHz$ | -    | 10   | -    | pF   |

## Electrical Characteristic Curves

Fig. 1  $I_F$ - $V_F$

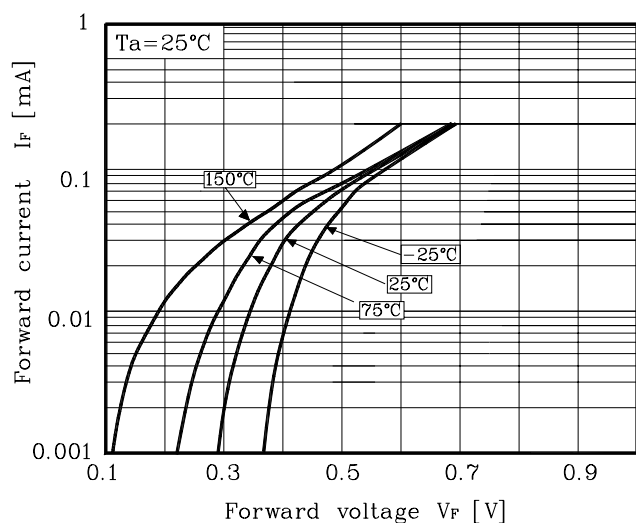


Fig. 2  $I_R$ - $V_R$

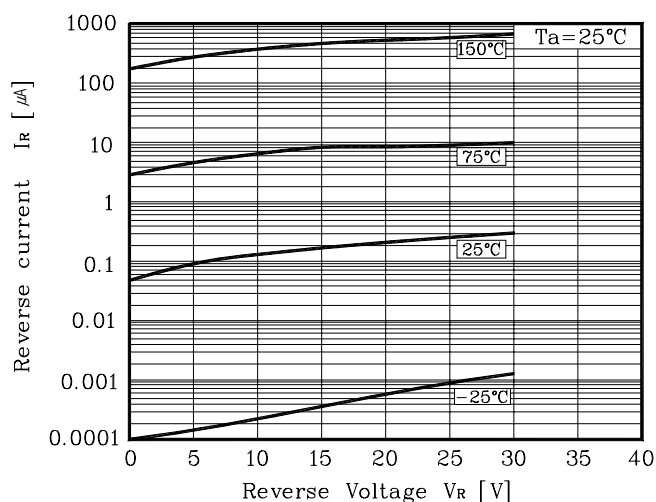
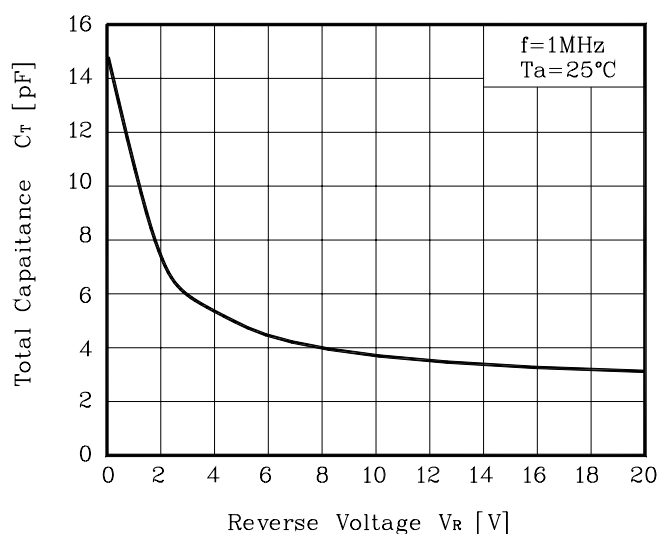


Fig. 3  $C_T$ - $V_R$



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